

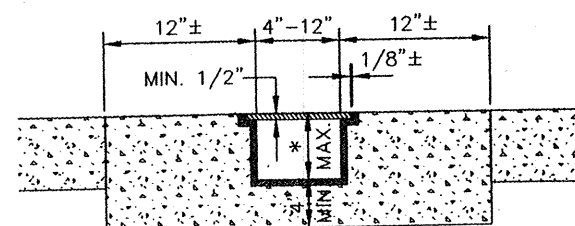
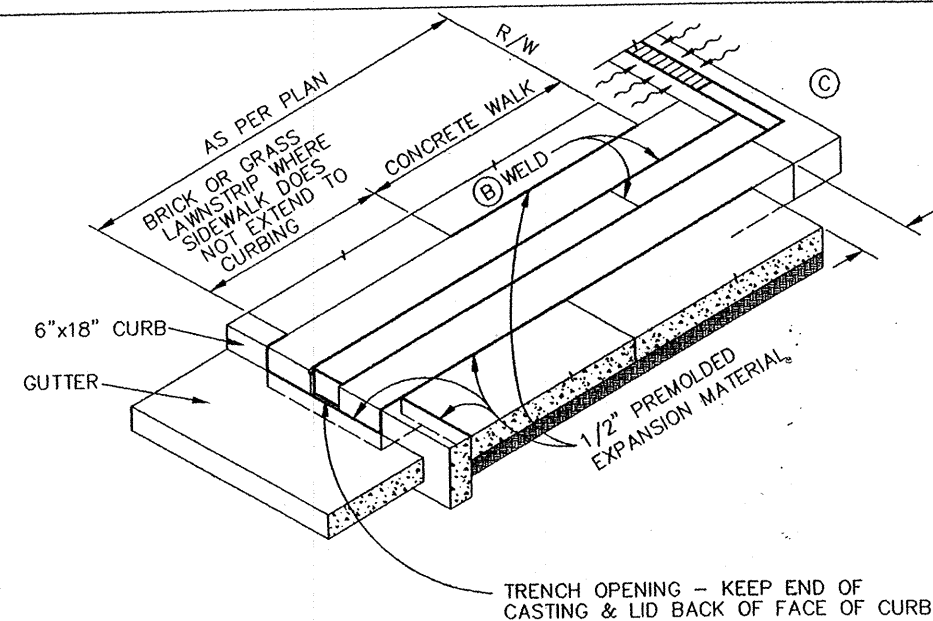
HOUSEDRAINS

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- (A) HOUSEDRAINS MUST BE LAID ON UNDISTURBED OR COMPACTED GROUND ON A CONTINUOUS SLOPE FROM R/W TO CURB. CAUTION SHALL BE EXERCISED TO PREVENT THE PIPE FROM SAGGING OR BEING CRUSHED UNDER THE CONCRETE.
- (B) WHERE HOUSEDRAINS CROSS UNDER WALKS, THE WALK SHALL BE MARKED WITH A 1" DIAMETER CIRCLE ON THE FRONT EDGE OVER THE PIPE. WHERE THE PIPE IS SKEWED 5' OR MORE BOTH EDGES OF THE WALK SHALL BE MARKED WITH A CIRCLE. WHERE ANY PORTION OF THE PIPE IS EMBEDDED IN THE CONCRETE, A CONSTRUCTION JOINT SHALL BE SAWCUT 2" INTO THE WALK DIRECTLY OVER THE PIPE.
- (C) CONNECTIONS TO EXISTING DRAIN PIPES SHALL INCLUDE ALL SUITABLE FITTINGS AND JOINTING AS NECESSARY.
- (D) COUPLINGS SHALL BE PROVIDED AS SHOWN. BELL END PIPE MAY BE USED IN LIEU OF COUPLINGS, AS DIRECTED BY THE ENGINEER.
- (E) HOLES SIZED COMPATIBLY TO THE PIPE SHALL BE PROVIDED THROUGH THE FINISHED CURB ONLY BY DRILLING. KEEP PIPE RECESSED 1/2".
- (F) PIPE SHALL TERMINATE WITH BELL OR COUPLING (PLUGGED) WHEN THERE IS NO EXISTING HOUSEDRAIN TO CONNECT.

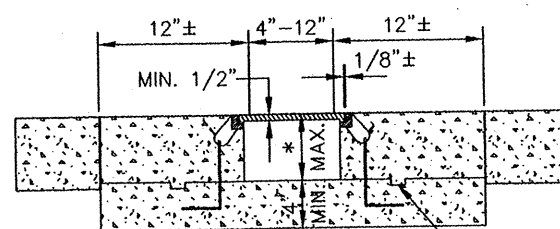
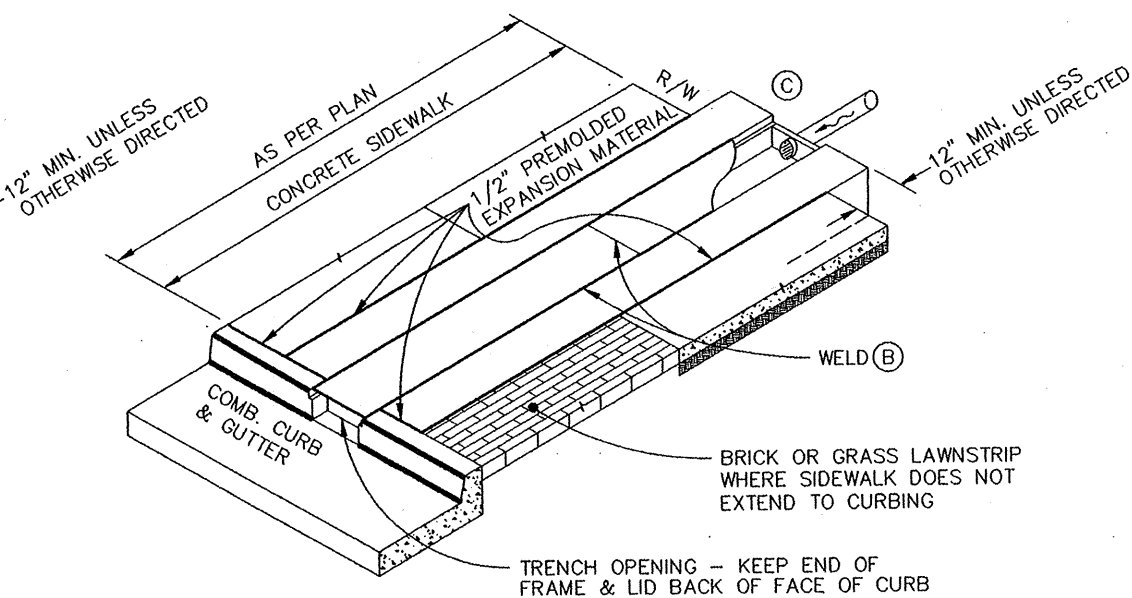
COVERED TRENCH DRAINS

- (A) THESE DRAWINGS SHOW TYPICAL METHODS OF CONSTRUCTING COVERED TROUGHS IN THE SIDEWALK AND LAWNSTRIP AREAS. SEVERAL MANUFACTURERS SUPPLY THE METAL TROUGHS, COVERS, ANGLE IRON, ETC., AND SLIGHT VARIATIONS IN DIMENSIONS OF THESE ITEMS MAY BE APPROVED BY THE ENGINEER.
- (B) COVERS SHALL BE FIELD WELDED TO THE FRAME ALONG EACH TOP EDGE AT INTERVALS NOT EXCEEDING 12". THE WELD SHALL BE 1" IN LENGTH. IF THE COVER IS COMPRISED OF TWO OR MORE PIECES, THE PIECES SHALL BE JOINED TOGETHER WITH A CONTINUOUS BUTT WELD. COVERS SHALL HAVE A NON-SLIP FINISH. OPEN TYPE GRATING WILL NOT BE PERMITTED.
- (C) COVERED TROUGHS MAY BE USED IN CONJUNCTION WITH DRIVEWAY TRENCH DRAINS OR LARGER ROOF DRAIN PIPES, OR AS APPROVED BY THE ENGINEER.



* 5 1/2" AT CURB

ALL METAL TROUGH IN CONCRETE



* 5 1/2" AT CURB

CONSTRUCTION JOINT—WIDTH COMPATIBLE TO APPLICATION

CONCRETE TROUGH WITH METAL COVER

DO NOT SCALE — USE DIMENSIONS ONLY

CITY OF AKRON BUREAU OF ENGINEERING	CONSTRUCTION STANDARD DWG. No. S-2
<i>Daniel G. Hark</i> 12-17-98 MANAGER, DESIGN DIVISION <i>Pawan K. Khaitan</i> MANAGER, CONSTRUCTION DIVISION <i>Charles Hark</i> 12/21/98 CITY ENGINEER	HOUSEDRAINS TRENCH DRAINS REVISIONS: